



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D206-667-207BL
Job Sheet 200061



Part No: D206-667-207BL

Job Qty: 1 pcs

Part Name: Aft Crosstube - Mid Height 206L / L1 / L3 / L4, Blue



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 9/6/19

Job Tracking No:

Created By: Marie Lajeunesse

Description: ORDER 19294

Due Date: 10/3/19

Type: SOLD

Note: DWG D206-667-207 REV.B / IPP RevA 11.01.13 New Issue EC verified by:DD IPP REV:B 11.08.08 PER ECN 11-615 DD VERF:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	Sign-off
					Setup	Run		
					Hrs	Hrs	Workcenter / Supplier Lead Time	
110	Crosstubes - Bend - 1	1 pcs	10/3/19	10/3/19	0.50	4.35	Crosstubes - Bend	BB 9/17/2019
120	QC 15	1 pcs	10/3/19	10/3/19	0.00	0.00	QC 15 - 12	
							QC 15 - 3	
							QC 15 - 47	
							QC 15 - 49	
							QC 15 - 58	
							QC 15 - 9	
							QC 15 - 68	DAS SEP 17 2019 68
130	Crosstubes - 2 - B4B	1 pcs	10/3/19	10/3/19	0.00	2.86	Crosstubes - 1 - B4B	
							Crosstubes - 2 - B4B	BB 9/19/2019
							Crosstubes - 3 - B4B	
							Crosstubes - 4 - B4B	
140	Crosstubes - 3 - B4B	1 pcs	10/3/19	10/3/19	0.00	0.55	Crosstubes - 1 - B4B	
							Crosstubes - 2 - B4B	
							Crosstubes - 3 - B4B	BB 9/19/2019
							Crosstubes - 4 - B4B	
150	QC 7	1 pcs	10/3/19	10/3/19	0.00	0.00	QC 7 - 10	
							QC 7 - 13	
							QC 7 - 14	
							QC 7 - 15	
							QC 7 - 17	
							QC 7 - 18	
							QC 7 - 19	
							QC 7 - 2	
							QC 7 - 28	
							QC 7 - 3	
							QC 7 - 30	
							QC 7 - 34	
							QC 7 - 36	
							QC 7 - 37	

Plex 9/6/19 10:37 AM Dart.lajeunesse.marie

					QC 7 - 41	
					QC 7 - 47	
					QC 7 - 48	
					QC 7 - 51	
					QC 7 - 58	
					QC 7 - 59	
					QC 7 - 60	
					QC 7 - 9	
					QC 7 - 68	
					QC 7 - 50	
					QC 7 - 67	GP 19-09-19.
					QC 7 - 40	
					QC 7 - 24	
					QC 7 - 43	
					QC 7 - 61	
					QC 7 - 81	
					160 QC 5	1 pcs
QC 5 - 12						
QC 5 - 17						
QC 5 - 18						
QC 5 - 19						
QC 5 - 22						
QC 5 - 24						
QC 5 - 3						
QC 5 - 43						
QC 5 - 49						
QC 5 - 51						
QC 5 - 58						
QC 5 - 68						
QC 5 - 9						
QC 5 - 50						
QC 5 - 30						
QC 5 - 40	SEP 19 2019					
QC 5 - 61						
QC 5 - 81						
170 Outsource - 2 - NDT per QSI038	1 pcs	10/3/19		SKY002-VC	1	PL 09/20/2019
180 Packaging 2-1 - Receive - B4B	1 pcs	10/3/19	0.00 0.00	Packaging 2 - 1 - B4B		
				Packaging 2 - 2 - B4B		
				Packaging 2 - 3 - B4B		
				Packaging 2 - 5 - B4B		
				Packaging 2 - 4 - B4B		
				Packaging 2 - 6 - B4B		
				Packaging 2 - 7 - B4B		
				Packaging 2 - 8 - B4B		
				Packaging 2 - 9 - B4B		
				Packaging 2 - 10 - B4B		
				Packaging 2 - 11 - B4B		
				Packaging 2 - 12 - B4B		
				Packaging 2 - 13 - B4B		
				Packaging 2 - 14 - B4B		
				Packaging 2 - 15 - B4B		
				Packaging 2 - 16 - B4B		
				Packaging 2 - 17 - B4B		
				Packaging 2 - 18 - B4B		
				Packaging 2 - 19 - B4B		
				Packaging 2 - 20 - B4B		
				Packaging 2 - 21 - B4B		
				Packaging 2 - 22 - B4B		
					Plex 9/6/19 10:37 AM Dart.lajeunesse.marie	

					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
190 QC 5	1 pcs	10/3/19	0.00 0.00	QC 5 - 10		
				QC 5 - 12		
				QC 5 - 17		
				QC 5 - 18		
				QC 5 - 19		
				QC 5 - 22		
				QC 5 - 24		
				QC 5 - 3		
				QC 5 - 43		
				QC 5 - 49		
				QC 5 - 51		
				QC 5 - 58		
				QC 5 - 68		
				QC 5 - 9		
				QC 5 - 50		
				QC 5 - 30		
				QC 5 - 40		
				QC 5 - 61		
				QC 5 - 81		
195 Spray Paint - 2 - B4B	1 pcs	10/3/19	0.00 2.26	Spray Paint - 1 - B4B		
				Spray Paint - 2 - B4B		
				Spray Paint - 3 - B4B		
				Spray Paint - 4 - B4B		
198 QC 14	1 pcs	10/3/19	0.00 0.00	QC 14 - 15		
				QC 14 - 2		
				QC 14 - 34		
				QC 14 - 41		
				QC 14 - 51		
				QC 14 - 58		
				QC 14 - 59		
				QC 14 - 9		
				QC 14 - 68		
				QC 14 - 40		
				QC 14 - 19		
				QC 14 - 43		
				QC 14 - 24		
				QC 14 - 61		
				QC 14 - 81		
220 Crosstubes - 4 - B4B	1 pcs	10/3/19	0.00 2.86	Crosstubes - 1 - B4B		
				Crosstubes - 2 - B4B		
				Crosstubes - 3 - B4B		
				Crosstubes - 4 - B4B		
230 Crosstubes - 5 - B4B	1 pcs	10/3/19	0.00 1.91	Crosstubes - 1 - B4B		
				Crosstubes - 2 - B4B		
				Crosstubes - 3 - B4B		

SEP 23 2019

DAS 40 9-89

AR 19-9-21

SEP 24 2019

DAS 40 9-89

AR 19-9-22

Plex 9/6/19 10:37 AM Dart.lajeunesse.marie

SEP 23 2019
DAS
40
9-89

AL 19-9-21

SEP 24 2019
DAS
9-89

AL 19-9-22

9/6/2019

[Dart Hawkesbury] Job Sheet - Lajeunesse, Marie

240 QC 5	1 pcs	10/3/19	0.00 0.00	Crosstubes - 4 - B4B	. Al 19-7-22
				QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
				QC 5 - 40	
				QC 5 - 61	
				QC 5 - 81	
250 Packaging 1-2 - Pick Kit - B4B	1 pcs ✓	10/3/19	0.00 0.00	Packaging 1 - 1 - B4B	
				Packaging 1 - 2 - B4B ✓	
				Packaging 1 - 3 - B4B	
				Packaging 1 - 4 - B4B	
				Packaging 1 - 5 - B4B	
				Packaging 1 - 6 - B4B	
				Packaging 1 - 7 - B4B	
				Packaging 1 - 8 - B4B	
				Packaging 1 - 9 - B4B	
				Packaging 1 - 10 - B4B	
				Packaging 1 - 11 - B4B	
				Packaging 1 - 12 - B4B	
				Packaging 1 - 13 - B4B	
				Packaging 1 - 14 - B4B	
				Packaging 1 - 15 - B4B	
				Packaging 1 - 16 - B4B	
				Packaging 1 - 17 - B4B	
				Packaging 1 - 18 - B4B	
				Packaging 1 - 19 - B4B	
				Packaging 1 - 20 - B4B	
				Packaging 1 - 21 - B4B	
				Packaging 1 - 22 - B4B	
				Packaging 1 - 23 - B4B	
				Packaging 1 - 24 - B4B	
				Packaging 1 - 25 - B4B	
				Packaging 1 - 26 - B4B	
				Packaging 1 - 27 - B4B	
				Packaging 1 - 28 - B4B	
				Packaging 1 - 29 - B4B	
				Packaging 1 - 30 - B4B	
				Packaging 1 - 31 - B4B	
				Packaging 1 - 32 - B4B	
				Packaging 1 - 33 - B4B	
				Packaging 1 - 34 - B4B	
				Packaging 1 - 35 - B4B	
				Packaging 1 - 36 - B4B	
260 QC 4	1 pcs	10/3/19	0.00 0.00	QC 4 - 28	
				QC 4 - 58	
				QC 4 - 69	

Wed 9-25-2019
Rosales, Oscar
012097

DAS
SEP 25 2019 4:00
9-89

Max/B. 9/28/2019

Plex 9/6/19 10:37 AM Dart.lajeunesse.marie

270 Packaging 3-1 - Stock - B4B	1 pcs	10/3/19	0.00 0.00	QC 4 - 9	
				QC 4 - 46	
				QC 4 - 68	
				QC 4 - 72	
				QC 4 - 74	
				QC 4 - 75	
				Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
275 DC - 1 - B4B	1 pcs	10/3/19	0.00 0.00	DC - 1 - B4B	
280 QC 21 - FG	1 pcs	10/3/19	0.00 0.00	DC - 2 - B4B	
				QC 21 - FG - 21	
				QC 21 - FG - 70	
				QC 21 - SA - 53	

Part Op 110 - CNC Alpha 160 Bender - Bend tube as per Dwg D206-667-247 using CNC bender program D206-667-207
 Descriptions: 120 - QC15- Crosstube Dimensional Check

130 - Crosstubes ***** ENSURE PROPER JIG POSITIONING BEFORE DRILLING***** , VERIFIED

BY: ***** 1-Drill pilot holes in tube using drill Jig DT8583 & DT8584 as per Dwg D206-667-247. Drill all (3) top holes. Holes facing inboard. Drill and Ream all holes in tube to finish size using drill Jig DT8583 & DT8584 as per Dwg D206-667-247 ***** ENSURE PROPER JIG POSITIONING BEFORE DRILLING***** , VERIFIED BY: *****

2- Drill fwd rivet holes using drill Jig DT8787 fwd as per Dwg D206-667-247. Note: FWD side has 3X top holes facing inboard. 3- C'sink holes as per dwg D206-667-247. Allow rivet to sit below surface to compensate for paint. 4- Flip tube and switch drilling Jigs from right to left, left to right. Locate Jigs off existing holes using "T" pins. Drill ONLY 2 top holes ONLY plug most bottom hole to prevent accidental drilling. Drill holes and ream using drill Jig DT8583 & DT8584 as per Dwg D206-667-247. Drill only the top (2) holes. Drill & ream the top (2) hole

140 - Crosstubes Chemical Conversion ***IMMEDIATELY AFTER GRINDING*** 1- PRESSURE WASH X-TUBE INSIDE AND OUT 2- ALODINE AND ACID ETCH X-TUBE INSIDE AND OUT AS PER QSI005.

150 - QC7-Inspect Chemical Conversion Coat

160 - QC5- Inspect part completeness to step on W/O

170 - Outsource process - NDT per QSI038 4.1 *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Liquid Penetrant Inspection as per QSI 038 Or Issue P/O: _____ LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order

180 - Receive & Inspect for Damage & Mat'l Certs *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Ensure copy of NDT results attached to work order.

190 - QC5- Inspect part completeness to step on W/O *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Ensure results are as per Dwg D206-667-247

195 - *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** **VERIFY BY _____ BATCH # TO MATCH W/O _____ **VERIFY BY _____ PART # TO MATCH W/O _____ **MASK SCRIBE B# & P# AND VERIFY*** 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube as per QSI 005 4.2 PRIME: Start Time: 5171337 Finish Time: _____ PAINT: DELFLEET BLUE 5187836 Start Time: _____ Finish Time: _____ CLEAR DELFLEET B 5173359

198 - QC14- Inspect Spray Paint Wrap in plastic bag to protect from scratches ***VERIFY BY _____ BATCH # TO MATCH W/O _____ **VERIFY BY _____ PART # TO MATCH W/O _____

220 - Crosstubes - 1-Install nut plates as per Dwg D206-667-247.

230 - 1-Abrade mating surfaces of support and crosstube with 400 grit sandpaper, clean the area with 4105S wash 'n' wipe 2-Install supports with Proseal 890 per DSI9565 and QSI 015 A/R Proseal 890 Batch: 5176610 exp 6/19 3- Torque bolts as per dwg

240 - QC5- Inspect part completeness to step on W/O ***VERIFY BY _____ BATCH # TO MATCH W/O _____ **VERIFY BY _____ PART # TO MATCH W/O _____

250 - Pick Kit

260 - QC4- 100% Inspect kits for completeness ***VERIFY BY _____ BATCH # TO MATCH W/O _____ **VERIFY BY _____ PART # TO MATCH W/O _____

270 - Identify as per dwg & Stock Location: _____ Identify and pack for shipping as per PPP D206-667-207 Location: _____ PPP Rev: _____

275 - Document Control Photocopy bluefile and create labels as per PPP D206-667-207 chg 002

280 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D206-667-247TRN	Crosstube Assembly, Mid Aft	1 pcs (1 ea)	110-Crosstubes - Bend - 1	<u>\$036379</u>
D2873-043	Nut Plate Assembly	2 pcs (2 ea)	220-Crosstubes - 4 - B4B	
D2873-045	Nut Plate Assembly	2 pcs (2 ea)	220-Crosstubes - 4 - B4B	
MS20601-AD4W10	Rivet	14 Ea (14 ea)	220-Crosstubes - 4 - B4B	
D2892-1	Support	2 pcs (2 ea)	230-Crosstubes - 5 - B4B	
D3595-063-450	Rubber Cushion 0.63" Wide X 4.50" Long	4 pcs (4 ea)	230-Crosstubes - 5 - B4B	
MS21920-22	Clamp	4 Ea (4 ea)	230-Crosstubes - 5 - B4B	
AN5-10A	Bolt	10 Ea (10 ea)	250-Packaging 1-2 - Pick Kit - B4B	
AN5-32A	Bolt	4 Ea (4 ea)	250-Packaging 1-2 - Pick Kit - B4B	
AN5-34A	Bolt	4 Ea (4 ea)	250-Packaging 1-2 - Pick Kit - B4B	
MS21042L5	Nut	4 Ea (4 ea)	250-Packaging 1-2 - Pick Kit - B4B	
NAS1149D0563J	Washer	18 Ea (18 ea)	250-Packaging 1-2 - Pick Kit - B4B	

(012097) Wed 9-25-2019 O.R

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Crosstubes - Bend - 1	D206-667-247TRN	1	4	0
220-Crosstubes - 4 - B4B	D2873-043 <u>5186472</u>	②	46	0
	D2873-045 <u>5186742</u>	②	28	0
	MS20601-AD4W10 <u>5133678</u>	⑭	39	0
230-Crosstubes - 5 - B4B	D2892-1 <u>5203970</u>	②	12	0
	D3595-063-450 <u>5196511</u>	④	17	0
	MS21920-22 <u>517289</u>	④	55	0
250-Packaging 1-2 - Pick Kit - B4B	AN5-10A	10	138	0
	AN5-32A	4	267	0
	AN5-34A	4	33	0
	MS21042L5	4	373	0
	NAS1149D0563J	18	1,429	0

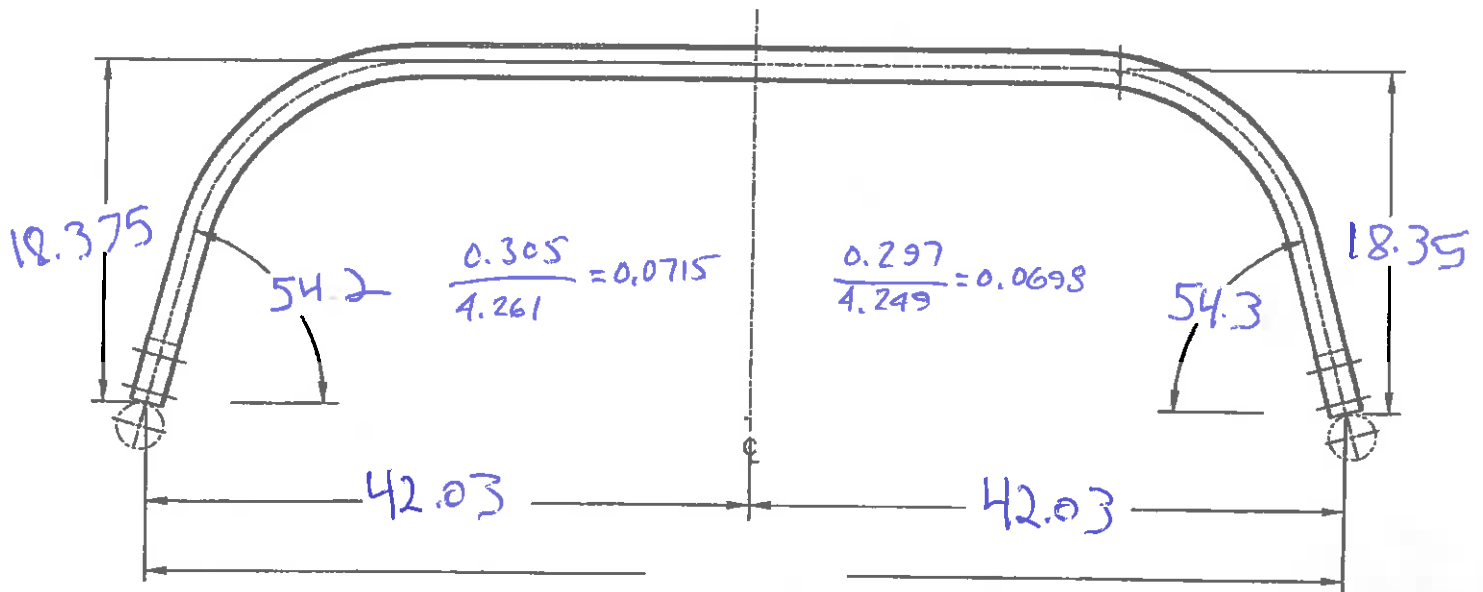
Part Specifications

Specifications could not be found.

Plex 9/6/19 10:37 AM Dart.lajeunesse.marie

DART AEROSPACE LTD		Work Order:	200061
Description: Crosstube Mid Aft (206L)		Part Number:	D206-667-207
Inspection Dwg: D206-667-247	Rev: B	Page 1 of 1	

Required Dimension	Min	Max
Height	18.34	18.60
1/2 Span	41.79	42.05
Angle	54°	56°
Total Span	83.59	84.09
Bending Passes	10	--
Crushing	--	6%



1.978
2.283

	Side A	Side B
Bending Passes		
Crushing	7.2%	7.0%
Comments		
Acceptable crushing per DR-1055 Rev A 4/15/17		

1.976
2.273

QC15 Inspection	
Date	

Rev	Date	Change	Revised by	Approved
A	12.02.15	New Issue	KJ	
B	12.04.16	Added bending, crushing dimensions	KJ	
C	19.05.23	New revision of drawing	MG	

Item	Qty	Part Number	Description
1	X	D208-887-247	CROSSTUBE ASSEMBLY (208L MID AFT)
2	1	D6004-115	CROSSTUBE
3	2	D2873-043	NUT PLATE
4	2	D2873-045	NUT PLATE
5	2	D2882-1	SUPPORT
6	4	D3595-083-480	RUBBER CUSHION
7	4	MS21920-22	CLAMP
8	14	MS20601AD4W10	RIVET (OR NAS8902B-4-10)
9	AR	PROSEAL 880 B-2	SEALANT, AMS-S-8802 CLASS B-2

GENERAL NOTES:

- 1) MATERIAL: MANUFACTURED FROM D6004-115
FINISHED LENGTH = 98.78±0.020
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- 6) IDENTIFICATION: SCRIBE DART PART NUMBER "D208-887-247" AND BATCH NUMBER ON INSIDE OF CLIP PER DART QSI 044 6.4 (VIBRATING STYLUS).
- 7) WEIGHT: 21.1 lbs (-607 = 17.7 lbs)
- 8) PART IS SYMMETRIC ABOUT CENTERLINE.
- 9) RUN CUTTER OFF PART WHERE INDICATED. BLEND OUT EDGE LONGITUDINALLY.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) TO INSTALL D2882-1 SUPPORT: ABRASE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 880 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 13) INSTALL MS21920-22 CLAMPS WITH D3595-083-480 RUBBER CUSHIONS TO SECURE THE D2882-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMP MECHANISMS ARE LOCATED ON CROSSTUBE SUPPORTS.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 880 SEALANT HAS CURED FOR 72 HOURS.

SHOP COPY
RETURN TO
ENGINEERING
UNCO-VALVED COPY

DER
7000062 MW

19-09-06

B	REVISE SHEET 2 ASSEMBLY DETAIL HOLE PATTERN PER CARB-241 UPDATE PARTS LIST AND GENERAL NOTES 12 & 15 TO INCORPORATE DED A-1.	JMH	18.05.01
A	NEW ISSUE	CP	10.12.23
REV.	DESCRIPTION	BY	DATE
DESIGN	φ	JMH	
DRAWN			
CHECKED	ZF		
MFG. APPR.	DZ		
APPROVED	NO		
DATE	18.05.01		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	D208-887-247
TITLE	CROSSTUBE ASSY (208L MID AFT)
REV. B	SHEET 1 OF 4
SCALE	NTS

RELEASED

2018 SEP 06 φ
EUN18-777

Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐



Job: _____ Part No. _____		DISPOSITION		DEPARTMENT/PROCESS																													
		Rework ☐ Scrap ☐ Use-as-is ☐	Skid-tube ☐ Machining ☐ Large Fab ☐	Cross tube ☐ Small Fab ☐ Finishing ☐	Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐																												
Date: _____		Sequence #: _____		QTY Affected: _____																													
Description Work Order Deviation		Disposition		MRB (QS1042)																													
Completed By		Lead hand / Supervisor		QC / QA Coordinator																													
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY <table border="1"><tr><td>Pressure/Forced</td><td>Contamination</td><td>Power Loss/Surge</td><td>Positioned Wrong</td></tr><tr><td>Bending</td><td>Misaligned/off center</td><td>Folio/Program</td><td>Outside Tolerance</td></tr><tr><td>Crushing</td><td>BOM/Route</td><td>Grain Direction</td><td>Drawing</td></tr><tr><td>Cracks</td><td>Broken/Damage/Defect</td><td>Weld</td><td>Finish</td></tr><tr><td>Crimp/Kink/Ripple/Wave/Twist</td><td>Incomplete/Unclear Instructions</td><td>Wrong Stock Pulled</td><td>Part Lost/Missing</td></tr><tr><td>Marks/Chatter</td><td>Drill Holes</td><td>Out of Sequence</td><td>Misread</td></tr><tr><td>Mislabeled</td><td>Fit/Function</td><td>Off-set/Set-up</td><td></td></tr></table>				Pressure/Forced	Contamination	Power Loss/Surge	Positioned Wrong	Bending	Misaligned/off center	Folio/Program	Outside Tolerance	Crushing	BOM/Route	Grain Direction	Drawing	Cracks	Broken/Damage/Defect	Weld	Finish	Crimp/Kink/Ripple/Wave/Twist	Incomplete/Unclear Instructions	Wrong Stock Pulled	Part Lost/Missing	Marks/Chatter	Drill Holes	Out of Sequence	Misread	Mislabeled	Fit/Function	Off-set/Set-up	
Pressure/Forced	Contamination	Power Loss/Surge	Positioned Wrong																														
Bending	Misaligned/off center	Folio/Program	Outside Tolerance																														
Crushing	BOM/Route	Grain Direction	Drawing																														
Cracks	Broken/Damage/Defect	Weld	Finish																														
Crimp/Kink/Ripple/Wave/Twist	Incomplete/Unclear Instructions	Wrong Stock Pulled	Part Lost/Missing																														
Marks/Chatter	Drill Holes	Out of Sequence	Misread																														
Mislabeled	Fit/Function	Off-set/Set-up																															
Other/Details:																																	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044535



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB044535
PO Date: 9/19/19
Due Date: 9/20/19
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	196105	D206-667-103	Fwd Crosstube - High 206L / L1 / L3 / L4 : TC STC SH01-5 Issue 3, FAA STC SR01304NY 05/12/15, JCAB JAPAN STC-32-OSA 02/02/28, EASA STC EASA.IM.R.S.01179 06/07/03, BRAZIL 2009S08-16 09/08/25, BRAZIL 2009S08-17 09/08/25 Outsource process - NDT per QSI038 4.1 - *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE***	Firmed	-	9/20/19	1 pcs	0 pcs	1 pcs	\$152.50/pcs	\$152.50
2	196106	D206-667-103	Fwd Crosstube - High 206L / L1 / L3 / L4 : TC STC SH01-5 Issue 3, FAA STC SR01304NY 05/12/15, JCAB JAPAN STC-32-OSA 02/02/28, EASA STC EASA.IM.R.S.01179 06/07/03, BRAZIL 2009S08-16 09/08/25, BRAZIL 2009S08-17 09/08/25 Outsource process - NDT per QSI038 4.1 - *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE***	Firmed	-	9/20/19	1 pcs	0 pcs	1 pcs	\$152.50/pcs	\$152.50



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044535



DAS
43
9-89

Items											
Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	200061	D206-667-207BL	Aft Crosstube - Mid Height 206L / L1 / L3 / L4, Blue : TC STC SH01-5 Issue 3, FAA STC SR01304NY 05/12/15, JCAB JAPAN STC-32-OSA 02/02/28, EASA STC EASA.IM.R.S.01179 06/07/03, BRAZIL 2009S08-16 09/08/25, BRAZIL 2009S08-17 09/08/25 Outsource process - NDT per QSI038 4.1 *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Liquid Penetrant Inspection as per QSI 038Or Issue P/O: _____ LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order	Firmed XI	-	9/20/19	1 pcs	0 pcs	1 pcs	\$152.50/pcs	\$152.50
							SEP 20 2019				DP
4	200062	D206-667-207BL	Aft Crosstube - Mid Height 206L / L1 / L3 / L4, Blue : TC STC SH01-5 Issue 3, FAA STC SR01304NY 05/12/15, JCAB JAPAN STC-32-OSA 02/02/28, EASA STC EASA.IM.R.S.01179 06/07/03, BRAZIL 2009S08-16 09/08/25, BRAZIL 2009S08-17 09/08/25 Outsource process - NDT per QSI038 4.1 *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Liquid Penetrant Inspection as per QSI 038Or Issue P/O: _____ LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order	Firmed XI	-	9/20/19	1 pcs	0 pcs	1 pcs	\$152.50/pcs	\$152.50
							SEP 20 2019				DP
5	199238	D212-664-101	Fwd Crosstube - High : TC STC SH01-9 Issue 3, FAA STC SR01298NY 09/01/08, EASA STC EASA.IM.R.S.01304 07/03/06, DGAC MEXICO STC IA-316/2015 15/06/17 *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Liquid Penetrant Inspection as per QSI 038 LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order	Firmed XI	-	9/20/19	1 pcs	0 pcs	1 pcs	\$152.50/pcs	\$152.50
							SEP 20 2019				DP

Plex 9/20/19 2:05 PM dart.lussier.patrick



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044535



Items											
Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	99239	D212-664-101	Fwd Crosstube - High : TC STC SH01-9 Issue 3, FAA STC SR01298NY 09/01/08, EASA STC EASA.IM.R.S.01304 07/03/06, DGAC MEXICO STC IA- 316/2015 15/06/17 *** WEAR LATEX GLOVES WHEN HANDLING CROSSTUBE*** Liquid Penetrant Inspection as per QSI 038 LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order	Firmed	-	9/20/19	1 pcs	0 pcs	1 pcs	\$152.50/pcs	\$152.50
Grand Total:											\$915.00

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 9/20/19 2:05 PM dart.lussier.patrick

**skyservice****Work Order Traveler**
Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO41837	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: POHB044535
Descr:	PN:	S/N:	Qty: 1
* Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:DAS
40
9-89**CARRY OUT NDT ON:**

2 FWD CROSSTUBES , P/N: D212-664-101 , J/S: 199238 , 199239

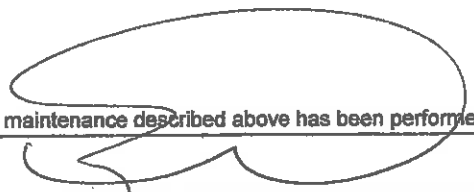
2 AFT CROSSTUBES , P/N: D206-667-207BL , J/S: 200061 , 200062

2 FWD CROSSTUBES , P/N: D206-667-103 , J/S: 196105 , 196106

Action Taken:						Date:	Initial/Stamp:
LPI C/O IAW ASTM E-1417M-16						SEP 20 2019	 
NO CRACK FOUND							
PEN. ZL-56, MPO13600, CLEANER SKC-S MPO13923 , DEV. MPO11715 , UV LIGHT M-20142							
Description	Location	P/N	Qty	Batch	S/N Off	S/N On	

RECEIVED
SEP 20 2019
DART AEROSPACE LTD.

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature: 	ACA/SCA Stamp 	Date: SEP 20 2019
Name: RAFIK MELIXIAN		

5.2 MID-HEIGHT CROSSTUBES

Item	Qty -107	Qty -207	Part Number	Description
	X		D206-667-107	CROSSTUBE INSTALLATION, 206L/L-1/L-3/L-4 MID FWD
		X	D206-667-207	CROSSTUBE INSTALLATION, 206L/L-1/L-3/L-4 MID AFT
7	1		D206-667-147	CROSSTUBE ASSEMBLY, 206L/L-1/L-3/L-4 MID FWD
8			D206-667-247	CROSSTUBE ASSEMBLY, 206L/L-1/L-3/L-4 MID AFT
10	*2		D2891-1	SUPPORT
11		*2	D2892-1	SUPPORT
13	*4		D3595-063-395	RUBBER CUSHION
14		*4	D3595-063-450	RUBBER CUSHION
16	*4		MS21920-20	CLAMP
17		*4	MS21920-22	CLAMP
19	4		AN5-32A	BOLT
20			AN5-34A	BOLT
21	4		MS21042L5	NUT (OR MS21042-5)
22	8		NAS1149C0563J	WASHER (OR AN950JD516)
40	*2	*2	D2873-043	NUT PLATE
41	*2	*2	D2873-045	NUT PLATE
44	10		AN5-7A	BOLT
45		10	AN5-10A	BOLT
46	4		AN5-30A	BOLT
47		4	AN5-32A	BOLT
48	12		AN970-4	WASHER (OPTIONAL)
50	10	10	NAS1149C0563J	WASHER (OR AN960JD516)

*REFERENCE ONLY. PARTS ARE INCLUDED IN D206-667-147/247 ASSEMBLIES ABOVE

PAGE 1 OF 1

Description: CROSSTUBE INSTALLATION, 206L/L1/L3/L4 MID AFT

[illegible]